Standard Operating Procedures for Ship's Force Protocol

LG #9C

Preventive Maintenance on Brake Assemblies

This SOP covers brake planned maintenance system (PMS) on anchor windlass, capstan, and weight handling equipment (hoist, cranes, conveyors, elevators, winches, chainfalls, and come-a-longs) in which brakes are made of asbestoscontaining materials (ACM)

Stowage

- Stow asbestos-containing materials (ACM) in sealed impermeable containers
- Ensure asbestos warning labels affixed to containers
- Ensure stowage areas for asbestos labeled accordingly
- Stow waste material for ashore offload

Personal Protective Equipment (PPE)

- Half-mask air purifying respirator equipped with HEPA filters
 - →DO NOT wear single use disposable respirators
 - Ensure RPM is involved in selection process
- Disposable coveralls
 - I Tyvek Type II or equivalent
 - Seal coveralls at wrists, ankles, & neck
 - Use duct tape for sealing

Personal Protective Equipment (PPE)

- Disposable gloves to handle brake assemblies
 - →Tape gloves at wrists
 - Surgeon's gloves prohibited
 - Use gloves from AEL2-2330024045, Appendix B1-J of OPNAYINST 5100.19 (series)

Note: The command shall train, fit test and ensure that all personnel have been medically cleared to wear a respirator before allowing any personnel to don a respirator.

Important Note

DO NOT consume food or beverages, chew gum or tobacco, smoke, or apply cosmetics during maintenance operations!

Procedures

- Cordon off area
 - →Use rope or tape
 - Post appropriate asbestos warning signs
- Control access to space where maintenance performed
- Lay down impermeable drop cloth
 - 6-mil poly sheeting good for this purpose

Procedures (continued)

- DO NOT use equipment or processes that may liberate dust:
 - →Dry sweeping
 - Air hoses
- Before commencing work
 - Wet area where break assembly located and/or
 - 1 FIEPA vacuum area

Procedures (continued)

- Commence preventive maintenance
- Do not use power tools that may create dust
 - →If tool must be used, consult assistant safety officer/IFIO for guidance

Cleaning up

- Vacuum area with HEPA vacuum--and/or--
- Wet wipe all dusty surfaces
- Dispose of damp rags as ACM
- Remove all clothing in reverse order as it was applied
 - → Dispose of coveralls & gloves as ACM

Cleaning up (continued)

- Remove respirator last
- Treat cartridges as ACM
- Decontaminate facepiece and return to proper storage
- Ensure tools cleaned and decontaminated with damp rags

Cleaning up (continued)

- Dispose of rags as ACM
- Personnel shall wash their hands upon completion of maintenance actions and before eating, drinking, chewing gum or tobacco, or applying cosmetics
- Have safety officer inspect area using Appendix B3-H of OPNAVINST 5100.19 (series) prior to allowing access to space

Offload

- Material to be handled as ACM
 - Old brake pads & scrap material
 - Rags
 - Disposable clothing (coveralls, gloves, tape, etc.)
 - Respirator cartridges
 - Drop cloths

Offload (continued)

- Place all waste in impermeable, appropriately labeled asbestos disposal bag
- Wet material thoroughly and seal with "J" or goose-neck seal
- Double-bag in second disposal bag & seal with "J" or goose-neck seal

Note: Use HEPA vacuum to evacuate air from bays prior to sealing. This reduces chance of bay rupture, and decreases space necessary for stowage

Medical Surveillance

- May be required for this operation
- Based on past history & current exposures to asbestos
- Placement depends on:
 - →Industrial Hygiene sampling data
 - Determination of Medical Department Representative

Training

- All personnel performing brake assembly PMS operations:
 - →Shall be trained on this SOP prior to work
 - Accomplished according to Appendix B1-E of OPNAVINST 5100.19 (series)
 - Accomplished by safety officer, engineering officer, EART or IMA member
 - Accomplished as on-the-job training
 - 1 Training documented in service record